LineUp With Math™ Alignment
Academic Standards: Mathematics

Standard 1.0 Number and Operations

Students will recognize, represent, model, and apply real numbers and operations verbally, physically, symbolically, and graphically.

Learning Expectations	***LineUp With Math™* Activities**
1.7 Use real numbers to represent real-world applications (e.g., slope, rate of change, probability, and proportionality);	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. --Use an interactive simulator plus calculation worksheets to apply proportional reasoning to identify and resolve distance, rate, time conflicts in air traffic control.

Standard 4.0 Measurement

The student will apply appropriate tools and units of measurement to produce reasonable results..

Learning Expectations	***LineUp With Math™* Activities**
4.1 use concepts of length, area, and volume to estimate and solve real-world problems;	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.
4.2 apply and communicate measurement concepts and relationships in algebraic and geometric problem-solving situations.	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios. --Predict and resolve aircraft conflicts and explain results of mathematical calculations and simulations.
4.3 demonstrate an understanding of rates and other derived and indirect measurements (e.g., velocity, miles per hour, revolutions per minute, cost per unit);	--Identify and resolve distance, rate, time conflicts in air traffic control problems by varying plane speeds or changing plane routes.